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54 **Buffer memory subsystem for peripheral controllers and method.**

57 A buffer memory subsystem for a peripheral controller. A CPU is provided for initiating data transfer. A host adapter is also provided. A memory buffer is used to store data temporarily. The peripheral controller is adapted for operating in an environment having at least two data communications buses: a CPU data communications bus connected between the CPU and the peripheral controller, and a buffer data communications bus, isolated from the CPU data communications bus, and connected to the peripheral controller, to the memory buffer and to the host adapter. In this way, a mechanism is provided to allow the CPU to access the memory buffer by means of the peripheral controller.

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EUROPEAN SEARCH REPORT

Application Number

EP 89 30 8916

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Y	IBM TECHNICAL DISCLOSURE BULLETIN, vol. 26, no. 11, April 1984, pages 5956-5959, New York, US; B.L. BEUKEMA et al.: "Transparent mode in an I/O controller" * Whole document *	1,2,4,9, 10,15	G 06 F 13/12 G 06 F 3/06
Y	EP-A-0 221 763 (CIPHER) * Figure 1; column 2, line 60 - column 3, line 41 *	1,2,4,9, 10,15	
A		5,17	
A		8	
A	US-A-4 593 324 (OHKUBO) * Figure 2; column 2, lines 30-60 *	6	
A	FR-A-2 314 556 (PHILIPS) * Page 6, lines 20-24; figure 1 *	21	
A	PATENT ABSTRACTS OF JAPAN, vol. 12, no. 255 (P-732), 19th July 1988; & JP-A-63 44 364 (OLYMPUS) 25-02-1988 * Whole document *	16,17	
A	WO-A-8 302 180 (SCHWAB) * Abstract; figure 1 *	22	TECHNICAL FIELDS SEARCHED (Int. Cl.5)
P,A	WO-A-8 900 312 (EXABYTE) * Page 4, lines 16-27; page 10, lines 5-32; page 35, lines 26-31 *	1,3,7,8,9, 10,11,15, 21,22	G 06 F
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of search 05 December 90	Examiner GILL S.M.
<div>CATEGORY OF CITED DOCUMENTS</div> <div>X : particularly relevant if taken alone</div> <div>Y : particularly relevant if combined with another document of the same category</div> <div>A : technological background</div> <div>O : non-written disclosure</div> <div>P : intermediate document</div> <div>T : theory or principle underlying the invention</div> <div>E : earlier patent document, but published on, or after the filing date</div> <div>D : document cited in the application</div> <div>L : document cited for other reasons</div> <div>& : member of the same patent family, corresponding document</div>			